

PROCEEDINGS
OF THE
BIOLOGICAL SOCIETY OF WASHINGTON



NEW ARIZONA PLANT NAMES.

BY IVAR TIDESTROM.

In view of the proposed issuance in mimeographed form of Keys to the Flora of Arizona, it has seemed desirable to publish separately the new names contained in the manuscript.¹

Allium mohavense (Jepson) Tidestrom.

Allium fimbriatum mohavense Jepson, Man. Fl. Pl. Calif. 218. 1923.

Abronia wootoni (Standl.) Tidestrom.

Tripterocalyx wootoni Standl. Contr. U. S. Nat. Herb. 12: 329. 1909.

Epibaterium diversifolium (DC.) Tidestrom.

Cocculus diversifolius DC. Reg. Veg. Syst. 1: 523. 1818.

Cocculus oblongifolius DC. Reg. Veg. Syst. 1: 529. 1818.

Cebatha diversifolia Kuntze, Rev. Gen. Pl. 1: 9. 1891.

Sophia diffusa (A. Gray) Tidestrom.

Sisymbrium diffusum A. Gray, Pl. Wright. 1: 8. 1852.

Halimolobus diffusus O. E. Schulz, Pflanzenz. IV. 105: 288. 1924.

Cleome jonesii (Macbride) Tidestrom.

Cleome lutea jonesii Macbride, Contr. Gray Herb. 65: 39. 1922.

Petrophytum caespitosum elatius (S. Wats.) Tidestrom.

Spiraea caespitosa elatior S. Wats. in King, Geol. Expl. 40th Par. 5: 81. 1871.

Petrophytum elatius Heller, Cat. N. Amer. Pl. ed. 2. 5. 1900.

Potentilla macdougalii Tidestrom, nom. nov.

Potentilla arizonica Rydb. N. Amer. Fl. 22: 373. 1908. Not *P. arizonica* Greene, 1887.

Prunus rufula (Woot. & Standl.) Tidestrom.

Padus rufula Woot. & Standl. Contr. U. S. Nat. Herb. 16: 132. 1913.

¹ For a number of years Mr. Ivar Tidestrom, formerly of the Bureau of Plant Industry, U. S. Department of Agriculture, has been at work on a Flora of Arizona. Arizona is now the only far western State for which no botanical manual is available. At the request of the federal Forest Service, it has been decided to mimeograph the keys of this manuscript, so far as they have been prepared, in order to make them immediately available.

—Frederick V. Coville.

Acacia shrevei (Britt. & Rose) Tidestrom.

Acaciella shrevei Britton & Rose, N. Amer. Fl. **23**: 105. 1928.

Parosela villosa (Rydb.) Tidestrom.

Thornbera villosa Rydb. N. Amer. Fl. **24**²: 118. 1920.

Cracca constricta (S. Wats.) Tidestrom.

Tephrosia constricta S. Wats. Proc. Amer. Acad. **24**: 46. 1889.

Sphinctospermum constrictum Rose, Contr. U. S. Nat. Herb. **10**: 107. *pl.*
34. 1906.

Astragalus yuccanus (Jones) Tidestrom.

Astragalus lentiginosus yuccanus Jones, Contr. West. Bot. **8**: 3. 1898.

Cystium yuccanum Rydb. N. Amer. Fl. **24**⁶: 407. 1929.

Astragalus mollissimus earlei (Greene) Tidestrom.

Astragalus humboldtii Jones, Rev. Astragal. 232. 1923. Not *A. humboldtii*
A. Gray, 1864.

Astragalus earlei Greene; Rydb. N. Amer. Fl. **24**⁶: 444. 1929.

Astragalus gooddingii (Rydb.) Tidestrom.

Hamosa gooddingii Rydb. Bull. Torrey Club **54**: 20. 1927.

Astragalus amphioxys melanocalyx (Rydb.) Tidestrom.

Xylophacos melanocalyx Rydb. Bull. Torrey Club **52**: 149. 1925.

Xylophacos tidestromii Rydb. Bull. Torrey Club **52**: 155. 1925.

Astragalus curtilobus Tidestrom, nom. nov.

Astragalus shortianus brachylobus A. Gray, Proc. Amer. Acad. **13**: 367.
1878. Not *A. brachylobus* DC. 1825.

Xylophacos brachylobus Rydb. Bull. Torrey Club **52**: 154. 1925.

Astragalus chloridae (Jones) Tidestrom.

Astragalus remulcus chloridae Jones, Rev. Astrag. 210. 1923.

Xylophacos chloridae Rydb. Bull. Torrey Club **52**: 153. 1925.

Astragalus blyae (Rose) Tidestrom.

Xylophacos blyae Rose, N. Amer. Fl. **24**⁶: 303. 1929.

Croton mohavensis (Ferguson) Tidestrom.

Croton californicus mohavensis Ferguson, Rep. Mo. Bot. Gard. **12**: 65. 1901.

Euphorbia chaetocalyx (Boiss.) Tidestrom.

Euphorbia fendleri chaetocalyx Boiss. in DC. Prodr. **15**²: 39. 1862.

Chamaesyce chaetocalyx Woot. & Standl. Contr. U. S. Nat. Herb. **16**: 144.
1913.

Euphorbia indivisa (Engelm.) Tidestrom.

Euphorbia dioica indivisa Engelm. in Torr. U. S. & Mex. Bound. Bot. 187.
1859.

Chamaesyce indivisa Millsp. Field Mus. Bot. **2**: 387. 1916.

Euphorbia philora (Cockerell) Tidestrom.

Euphorbia montana Engelm. in Torr. U. S. & Mex. Bound. Bot. 192. 1859.
Not *E. montana* Raf. 1817.

Tithymalus philorus Cockerell, Muhlenbergia 4: 56. 1908.

Euphorbia yaquiana Tidestrom, nom. nov.

Euphorbia mollis Engelm. in Patterson, Check-list 114. 1887. Not *E. mollis* Gmelin, 1806.

Euphorbia schizoloba mollis Norton, Rep. Mo. Bot. Gard. 11: 127. 1899.

Sphaeralcea scoparia (L'Hér.) Tidestrom.

Malva scoparia L'Hér. Stirp. Nov. Pl. 27. 1784.

Malvastrum scoparium A. Gray, U. S. Expl. Exped. 15: 147. 1854, in text.

Oenothera simplex (Small) Tidestrom.

Oenothera ambigua S. Wats. Proc. Amer. Acad. 14: 293. 1879. Not Spreng. 1825.

Anogra simplex Small, Bull. Torrey Club 23: 175. 1896.

Oenothera runcinata (Engelm.) Tidestrom.

Oenothera albicaulis runcinata Engelm. Amer. Journ. Sci. II. 34: 334. 1862.

Anogra runcinata Woot. & Standl. Contr. U. S. Nat. Herb. 16: 151. 1913.

Oenothera neomexicana (Small) Tidestrom.

Anogra neomexicana Small, Bull. Torrey Club 23: 176. 1896.

Oenothera taraxacoides (Woot. & Standl.) Tidestrom.

Lavauzia taraxacoides Woot. & Standl. Contr. U. S. Nat. Herb. 16: 155. 1913.

Oenothera toumeyi (Small) Tidestrom.

Galpinsia toumeyi Small, Bull. Torrey Club 25: 317. 1898.

Oenothera veitchiana (Hook.) Tidestrom.

Oenothera graciliflora Torr. U. S. Rep. Expl. Miss. Pacif. 4: 87. 1857. Not *O. graciliflora* Hook. & Arn. 1840.

Oenothera bistorta veitchiana Hook. in Curtis' Bot. Mag. 84: pl. 5078. 1858.

Sphaerostigma veitchiana Small, Bull. Torrey Club 23: 191. 1896.

Oenothera phlebophylla Tidestrom, nom. nov.

Chylismia venosa Nels. & Kennedy, Muhlenbergia 3: 140. 1908. Not *Oenothera venosa* Shull & Bartlett, Amer. Journ. Bot. 1: 241. pl. 19. f. 2. 1914.

Oenothera watsoni Tidestrom, nom. nov.

Oenothera brevipes parviflora S. Wats.; Parry, Amer. Nat. 9: 271. 1875. Not *O. parviflora* L. 1759.

Chylismia parviflora Rydb. Fl. Rocky Mount. 603. 1917.

Cymopterus multinervatus (Coult. & Rose) Tidestrom.

Cymopterus purpurascens Jones, Proc. Calif. Acad. II. 5: 687. 1895. Not *C. montanus purpurascens* A. Gray, 1860.

Pheellopterus multinervatus Coult. & Rose, Contr. U. S. Nat. Herb. 7: 169. 1900.

Cymopterus macdougali (Coult. & Rose) Tidestrom.

Aletes (?) *macdougali* Coult. & Rose, Contr. U. S. Nat. Herb. 7: 107. 1900.
Oreoxis macdougali Rydb. Bull. Torrey Club 40: 68. 1913.

Cymopterus ligusticoides puniceus Tidestrom, nom. nov.

Pseudocymopterus montanus purpureus Coult. & Rose, Rev. Umbell. 75. 1888.

Pseudocymopterus purpureus Rydb. Bull. Torrey Club 33: 147. 1906. Not
Cymopterus purpureus S. Wats. 1873.

Cymopterus ligusticoides purpureus Jones, Contr. West. Bot. 12: 29. 1908.

Cymopterus tenuifolius (A. Gray) Tidestrom.

Thaspium montanum tenuifolium A. Gray, Pl. Wright. 2: 65. 1853.

Pseudocymopterus tenuifolius Rydb. Bull. Torrey Club 33: 147. 1906.

Cymopterus ligusticoides tenuifolius Jones, Contr. West. Bot. 12: 29. 1908.

Centaureum calycosum arizonicum (A. Gray) Tidestrom.

Erythraea calycosa arizonica A. Gray, Syn. Fl. 2¹: 113. 1878.

Centaureum arizonicum Heller, Muhlenbergia 4: 86. 1908.

Asclepias emoryi (Greene) Tidestrom.

Podostemma emoryi Greene, Pittonia 3: 237. 1897.

Welwitschia filifolia diffusa (A. Gray) Tidestrom.

Gilia filifolia diffusa A. Gray, Proc. Amer. Acad. 8: 272. 1870.

Leptodactylon floribundum (A. Gray) Tidestrom.

Gilia floribunda A. Gray, Proc. Amer. Acad. 8: 267. 1870.

Leptodactylon nuttallii floribundum Jepson, Man. Fl. Pl. Calif. 808. 1925.

Leptodactylon pungens squarrosus (A. Gray) Tidestrom.

Gilia pungens squarrosa A. Gray, Proc. Amer. Acad. 8: 268. 1870.

Leptodactylon patens Heller, Muhlenbergia 1: 146. 1906.

Nyctelea membranacea (Benth.) Tidestrom.

Ellisia membranacea Benth. Trans. Linn. Soc. 17: 274. 1837.

Nyctelea torreyi (A. Gray) Tidestrom.

Phacelia micrantha bipinnatifida Torr. in Ives, Rep. Colo. River. 21. 1860.

Ellisia torreyi A. Gray, Proc. Amer. Acad. 20: 302. 1865.

Macrocalyx bipinnatifidus Coville, Contr. U. S. Nat. Herb. 4: 157. 1893.

Heliotropium curassavicum oculatum (Heller) I. M. Johnston.

Heliotropium oculatum Heller, Muhlenbergia 1: 58. 1904.

Cryptantha jamesii setosa (Jones) I. M. Johnston.

Krynitzkia multicaulis setosa Jones, Contr. West. Bot. 13: 4. 1910.

Hemisphaerocarya suffruticosa setosa Brand in Fedde, Repert. 24: 60. 1927.

Lippia incisa (Small) Tidestrom.

Phyla incisa Small, Fl. Southeast. U. S. 1012. 1903.

Antirrhinum flaviflorum dentatum Tidestrom, nom. nov.

Maurandia acerifolia Pennell, Journ. Washington Acad. Sci. **19**: 69. 1929.

The leaves of this species are deeply toothed, scarcely lobed; their resemblance to maple leaves is rather remote.

Agalinis wrightii (A. Gray) Tidestrom.

Gerardia wrightii A. Gray in Torr. U. S. & Mex. Bound. Bot. 118. 1859.

Megarrhiza macrocarpa (Greene) Tidestrom.

Echinocystis macrocarpa Greene, Bull. Calif. Acad. **1**: 188. 1885.

Micrampelis macrocarpa Greene, Pittonia **2**: 129. 1890.

Marah macrocarpus Dunn, Kew Bull. Misc. Inform. **1913**: 152. 1913.

In 1862 Naudin (Annales des Sciences Naturelles, ser. 4. **16**: 188) discussed the nomen nudum, *Megarrhiza californica* Torr. (U. S. Rep. Expl. Miss. Pacif. **6**: 14. 1857; **7**: 11. 1857), and placed it as a synonym of his own species, *Echinocystis fabacea*. At first sight this would seem to justify Greene's action (Leaflets **2**: 35-36. 1910) in rejecting the generic name *Megarrhiza* and adopting in lieu thereof *Marah* Kellogg (1863). Naudin, however, has clearly indicated the type of *Megarrhiza* Torr. & Gray and has stated the characters by which it differs from the species of *Echinocystis* of eastern United States. This characterization has impelled the writer to take up the name given by Torrey in 1857, and defined by Naudin in 1862. The genus *Megarrhiza* has been carefully defined by Sereno Watson in Proceedings of the American Academy (**11**: 138. 1876) and in the Botany of California (**1**: 240. 1876).